

**ABSTRACT**

An antenna device for transmitting and/or receiving electromagnetic radiation, installable in and connectable to a communication device, includes an antenna structure switchable  
5 between a plurality of antenna configuration states. Each antenna configuration state is distinguished by a set of radiation parameters, such as resonance frequency, input impedance, bandwidth, radiation pattern, gain, polarization, and near-field pattern. Each of the plurality of antenna configuration states is  
10 adapted for use of the antenna device in the communication device in a respective predefined physical operation environment. A switching device selectively switches the antenna structure between the plurality of antenna configuration states  
15